

FILE NOTATIONS

Entered in NID File ✓
 Entered On S R Sheet ✓
 Location Map Pinned ✓
 Card Indexed ✓
 I W R for State or Fee Land ✓

Checked by Chief R.L.S.
 Copy NID to Field Office ✓
 Approval Letter ✓
 Disapproval Letter ✓

COMPLETION DATA:

Date Well Completed 1-20-61
 OW _____ WW _____ TA _____
 GW _____ OS _____ PA X

Location Inspected 7-18-61 H2C
 Bond released _____
 State of Fee Land _____

LOGS FILED

Driller's Log 2-14-61
 Electric Logs (No.) 5

E ✓ I ✓ E-I ✓ GR _____ GR-N _____ Micro _____
 Lat _____ Mi-L _____ Sonic _____ Others _____

Radioactivity Log
Contact Galipier Log
Minisota / Galipier

		34	
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(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Copy to H.C.
Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.
Indian Agency Navajo
Allottee Tribal Lands
Lease No. 14-20-603-4351

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

November 4, 19 60

Well No. Danessa 1 is located 758.8 ft. from N line and 4627.8 ft. from E line of sec. 34

SW SW 34 42S 20E SLBM
($\frac{1}{4}$ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wilcox San Juan Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~bottom of the well~~ is 4925 ft. (approx. ground)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Proposed Work:

1. Drill 12-1/4" hole to 600'±.
2. Cement 8-5/8", 28g, J-55 casing at 600'± with 400 sacks cement, last 200 sacks treated with 2% calcium chloride.
3. Drill 7-7/8" hole to 5350' (objectives Hermosa and Mississippian formations).
4. If commercial production is obtained a supplementary notice will be issued.

Surface formation is Glen Canyon Group.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

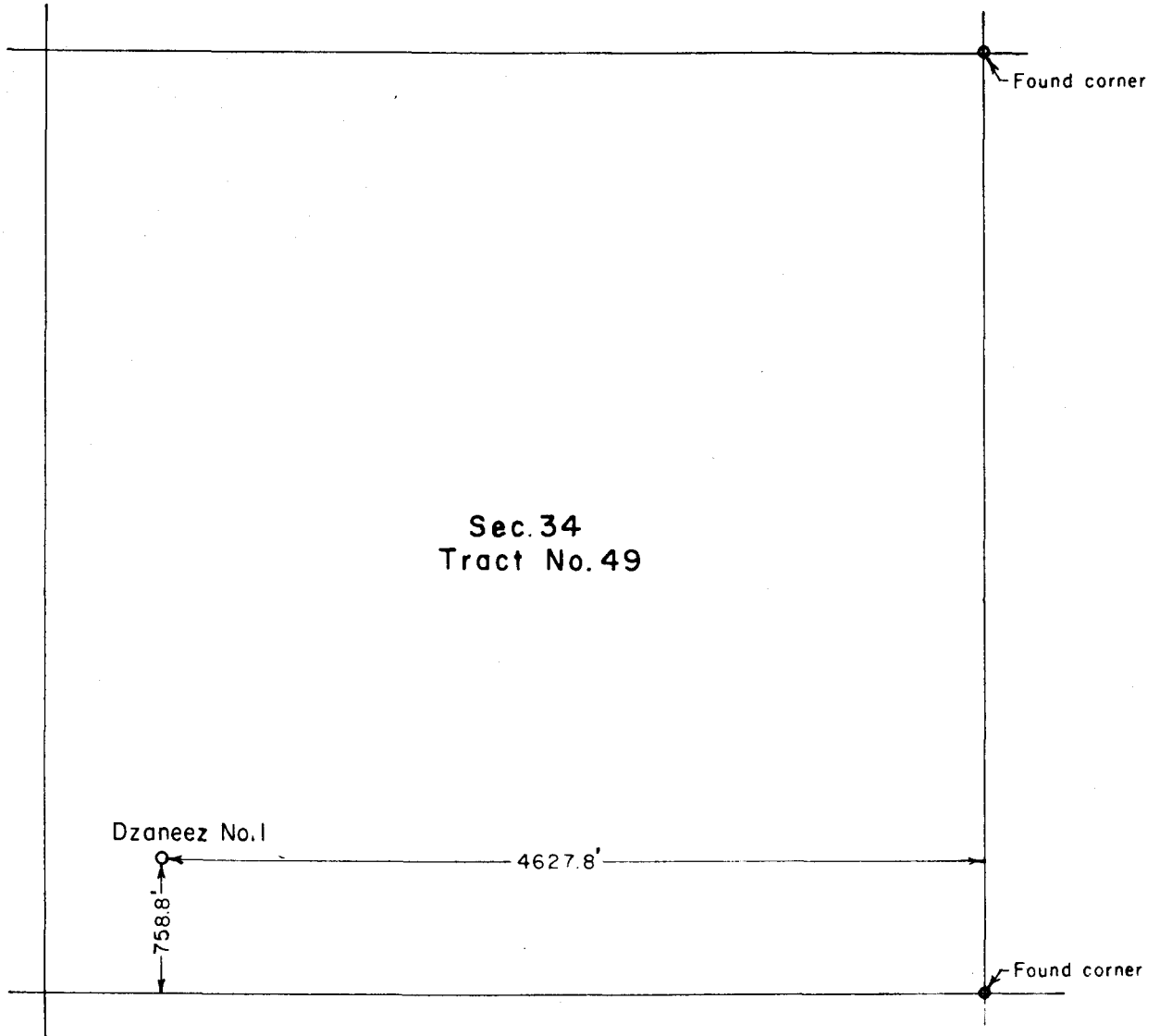
Address Post Office Box 1200

Farmington, New Mexico

Original Signed By
W. M. MARSHALL

By W. M. Marshall
Title Division Exploitation Engineer

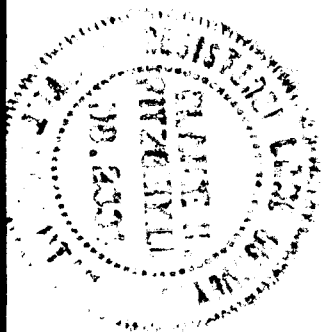
Sec. 34
Tract No. 49



Location: Dzaneez No. 1, Section 34, T. 42 S., R. 20 E., S.L.B.M.,
San Juan County, Utah.
Elevation: 4925

This is to certify that the above plat was plotted from field notes
of a survey made under my supervision, and that the same is true and
correct to the best of my knowledge and belief.

Blaine H. Fitzgerald
L.S. # 2334



DRAWN BY

CHECKED BY

DATE

SHELL OIL COMPANY

SCALE 1" = 1000'

Z-20-1176

LOCATION OF DZANEEZ #1
SECTION 34, T 42 S, R 20 E, S.L.B.M.
SAN JUAN CO. UTAH

November 7, 1960

Shell Oil Company
P. O. Box 1200
Farmington, New Mexico

Attention: W. M. Marshall, Div. Exploitation Eng.

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Dzaneez #1, which is to be located 758.8 feet from the south line and 4627.8 feet from the east line of Section 34, Township 42 South, Range 20 East, SLM, San Juan County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted.

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT,
EXECUTIVE SECRETARY

CBF:awg

cc: P. T. McGrath, Dist. Eng.
U. S. Geological Survey

H. L. Counts - OGCC, Moab

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Copy 40 HC
Budget Bureau No. 42-R714.4.
Approval expires 12-31-60.

ALLOTTEE Tribal
TRIBE Navajo
LEASE NO. 14-20-603-4351

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field Wildcat - Dzaneez

The following is a correct report of operations and production (including drilling and producing wells) for the month of November, 1960,

Agent's address Post Office Box 1200 Company Shoshone Oil Company
Farmington, New Mexico Signed W. M. MARSHALL

Phone Davis 5-8811 Agent's title Exploitation Engineer

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL No.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (in thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
34 SW SW 42S	20E	1	-	-	-	-	-	-	-	Spudded 11-25-60. Drilling at 1366'.

NOTE.—There were no runs or sales of oil; no M. cu. ft. of gas sold;

no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Copy to FLC RL2

ALLOTTEE Tribal
TRIBE Navajo
LEASE NO. 14-20-603-4351

Amey

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 19 60,

_____ Farmington, New Mexico _____ Signed _____ W. M. MARSHALL

Phone Davis 5-8811 Agent's title Div. Exploitation Engineer

34 SW SW	42S	20E	1	-	-	-	-	-	-	Drilling at 4517'.
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NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

SHELL OIL COMPANY

WELL NO. Dzaneez #1

Wildcat

DRILLING REPORT
FOR PERIOD ENDING

Sec. 34

San Juan, Utah

December 12, 1960

(SECTION OR LEASE)

(COUNTY)

T. 42 S., R. 2 E.

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
			<p>Location: 758.8' N and 4627.8' W of SE corner, Section 34, T. 42 S., R. 20 E., S.L.B.M., San Juan County, Utah</p> <p>Elevation: DF 4930.4 KB 4931.9 GL 4918.8</p> <p>Spudded 6:00 A.M., November 25, 1960</p>
11-25 to 11-27	0	558	Drilling 12-1/4" hole. Dev. 1/2° @ 106' Dev. 0° @ 221' Dev. 1-3/4° @ 520'
11-27	588		Set 8-5/8", 28# casing @ 588' w/200 sacks 1-1 Diamix and 200 sacks regular treated w/3% CaCl ₂
11-28 to 12-8	588	3169	Flanged up. Tested BOPE @ 750#, 15 min.; OK Drilling 7-7/8" hole. Dev. 1-3/4° @ 593' 2° @ 2178' 1-1/2° @ 785' 1-3/4° @ 2315' 1-1/4° @ 950' 1-3/4° @ 2629' 1/4° @ 1235' 1-1/4° @ 2791' 1/2° @ 1675' 1° @ 2943' 2° @ 2060' 1° @ 3080'
12-9 to 12-11	3169	3420	Drilling 7-7/8" hole. Lost circulation (approximately 300 bbls.) @ 3258' and 3262'. Mixed mud w/lost circulation material, staged to bottom. Dev. 1° @ 3191' 3/4° @ 3274' 1° @ 3407'
12-12	3420	3541	Drilling 7-7/8" hole. Lost partial circulation @ 3519'. Regained with lost circulation material.
			END

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	588	8-5/8"	588
7-7/8"	588	3541		
DRILL PIPE SIZES 4-1/2				

J. D. McLehaney

SIGNED

SHELL OIL COMPANY

Dzaneez
WELL NO. 1

Wildcat

DRILLING REPORT
FOR PERIOD ENDING

December 25, 1960

Sec. 34

(SECTION OR LEASE)

T. 42 S., R. 20 E.

(TOWNSHIP OR RANCHO)

(FIELD)
San Juan, Utah
(COUNTY)

DAY	DEPTHS		REMARKS
	FROM	TO	
12/13	3541	3634	Drilling 7-7/8" hole. Lost 50% circulation - regained with mud and lost circulation material. Dev. 1-1/4" at 3552'.
12/14	3634	3721	Lost circulation at 3721' after trip. Pulled 6 stands. Mixed mud and lost circulation material. Regained circulation. Dev. 1-1/4" at 3721'.
12/15 to 12/18	3721	4028	Drilling 7-7/8" hole. Dev. 2-1/4" at 3840'.
12/19	4028	4052	Drilling 7-7/8" hole. Lost circulation (approximately 1200 barrels) at 4052'. Pulled. Filled hole with mud and lost circulation material. Circulating at 3422' with full returns.
12/20	4052		Mixed and displaced 150 sacks cement and lost circulation material at 3860. Calculated top of cement at 3328' - located firm cement at 3452'. Cleaned out 3328' to 3452' with full returns.
12/22	4052		Cleaned out cement from 3628' to 3860'. Cleaned out fill 3860'-3900'. Lost returns. Pulled. Cemented with pipe at 3902', 150 sacks cement and lost circulation material; staged in to 3887', lost 300 barrels mud.
12/23	4052		Cemented at 3887' with open drill pipe - 150 sacks cement and lost circulation material. Found cement at 3277'. Drilling with full returns.
12/24	4052		Cleaned out cement to 3902' with full returns. Cleaned out fill 3902-3938' with partial returns. Cleaned out fill 3938'-4052' with no returns. Ran blank drill pipe to 4052', cemented with 150 sacks cement and lost circulation material + 2% CaCl ₂ . Found hard cement at 3947'. With blank drill pipe at 3946', cemented with 150 sacks cement + 2% CaCl ₂ . Found hard cement at 3926'.
12/25	4052		Ran blank drill pipe to 3925'. Cemented with 150 sacks cement + 2% CaCl ₂ . Found hard cement at 3420'. Cleaned out cement 3420-3800' with full returns.

CONDITION AT BEGINNING OF PERIOD

HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	588	8-5/8"	588'
7-7/8"	588	4052		
DRILL PIPE SIZES 4-1/2				

J. D. McLehanev

SIGNED

Wildcat

(FIELD)

DRILLING REPORT

FOR PERIOD ENDING

35

(SECTION OR LEASE)

San Juan, Utah

1-18-61

T. 42 S., R. 20 E.

(COUNTY)

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
12/26	4052	4069	Cleaned out cement 3800-4052' with full returns. Drilled 7-7/8" hole to 4069' - lost circulation. Pulled 6 stands and regained circulation. Staged in to 4069', circulating with full returns.
12/27	4069	4120	Drilled 7-7/8" hole to 4088' with full returns. Lost circulation at 4088' making bit change. Regained circulation with mud and lost circulation material. Drilled to 4097' with full returns, lost circulation at 4097'. Pulled 6 stands, regained circulation with mud and lost circulation material. Drilling with full returns.
12/28 to 1/5/61	4120	4896	Drilled 7-7/8" hole.
1/6/61	4896	5398	DST #1 4832-4896'. Test period 2 hours, initial shut in 1 hour, final shut in 2 hours. Ran Halliburton Testers. Used two 6-3/4" expanding shoe packers at 4827' and 4832'. Recovered 3800' (50.7 barrels) oil, gas and mud cut sulphurous water (salinity 28,000 PPM). Reversed out. ISIP 1695/60 minutes; FSIP 1695/120 minutes (stabilized); IFP 1495; FFP 1695; HP 2322. During open period had an immediate strong blow, began to decrease at 30 minutes, to a very faint blow at end of test. Lost circulation at 5398'. Pulled 6 stands, mixed mud and lost circulation material, no recovery. Pulled out to top of drill collars - mixed mud and lost circulation material.
1/13	5398	5414	Mixed mud and lost circulation material. Regained circulation. Staged in - lost circulation 15 stands off bottom. Pulled 5 stands - mixed mud and lost circulation material. Regained about 3/4 circulation. Ran in, losing partial returns. Ran to bottom, built mud volume. Drilling with full returns.
1/14 to 1/16	5414	5558	Drilled 7-7/8" hole. T.D. at 5558'
1/16 to 1/18	5558		Ran Welex IES, Contact-Caliper and GRN Logs followed by Lane Wells IES and Minilog-Caliper (demonstration run, free to Shell). Ran DST #2, straddle test, 4832-4855'. Ran Halliburton Testers. Open 2 hours, shut in 2 hours. Faint blow 15 minutes, dead rest of test. Recovered 470' (3.95 barrels) sulphurous water. ISIP 1664/60 minutes; FSIP 1600/120 minutes; IFP/FFP 65/207; HP 2275. Used Hookwall Anchor and two upper and two lower expanding shoe packer assemblies.
CONDITION AT END OF PERIOD			
HOLE			CASING SIZE
SIZE	FROM	TO	DEPTH SET
12-1/4"	0	588	8-5/8"
7-7/8"	588	5558	
DRILL PIPE SIZES 4-1/2			

J. D. McLehanev

SIGNED

SHELL OIL COMPANY

Dzaneez

WELL NO. 1

Wildcat

(FIELD)

San Juan, Utah

(COUNTY)

DRILLING REPORT

FOR PERIOD ENDING

1-20-61

35

(SECTION OR LEASE)

T. 42 S., R. 20 E.

(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
1/19	5558 TD		With open end drill pipe plugged as follows: 75 sacks cement 3593-3850' (across top of Hermosa) 75 sacks cement 1518-1775' (across top of De Chelly) 150 sacks cement 394-760' (across top of Chinle and shoe of surface casing. Located top of cement in casing at 394'. Installed abandonment marker with a 10-sack cement plug.
1/20			Released rig at 8:00 A.M., 1-20-61. Abandoned.

CONDITION AT END OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12-1/4"	0	588	8-5/8"	588'
7-7/8"	588	5588		
DRILL PIPE SIZES				
4-1/2				

Contractor: Moran Brothers, Inc.
Contract Drilling Foreman: R. B. Claiborne
Contract Drillers: Arnie Bryant
Vick Sokolsky
O. T. Ash
Shell Drilling Foreman: C. L. Christiansen

[Signature]

J. D. McLehaney

SIGNED

DITCH SAMPLES

Examined by McLehaneey 3900 to 4050Well Dzaneez No. 1Field or Area Wildcat

From	To	%	Shows Underlined	Samples Lagged (Not)
3900	3905	100	<u>Siltstone</u> , red, brown, gray, firm very calcareous.	(Samples not described by engineers above 3900')
3905	3915	40	<u>Siltstone</u> , as above	
		60	<u>Sandstone</u> , white, very fine, sub-rounded, good sorting, very calcareous.	
3915	3920	30	<u>Siltstone</u> , as above with trace black shale.	
		70	<u>Sandstone</u> , as above.	
3920	3925	60	<u>Siltstone</u> , as above, red brown, gray and light green.	
		40	<u>Sandstone</u> , as above, very fine-fine.	
3925	3930	30	<u>Siltstone</u> , as above.	
		70	<u>Sandstone</u> , as above, with sandstone gray, very fine, calcareous, cemented, firm.	
3930	3935	100	<u>Siltstone</u> , as above, reddish brown, occasional light gray, with trace sandstone, as above.	
3935	3945	100	<u>Siltstone</u> , as above.	
3945	3950	100	<u>Siltstone</u> , as above, reddish brown, with trace light green, trace anhydrite, calcareous, firm with very fine mica.	
3950	3980	100	<u>Siltstone</u> , as above brown, trace red, light green, lavender.	
3980	3985	100	<u>Siltstone</u> , as above, with occasional mica and trace lavender shale, trace <u>Limestone</u> , red brown, IVFA, very silty.	
3985	3990	100	<u>Siltstone</u> , as above, trace <u>limestone</u> , gray, IVFA, occasionally fossiliferous, silty.	
3990	4000	100	<u>Siltstone</u> , as above.	
4000	4005	100	<u>Siltstone</u> , as above, with trace greenish gray siltstone, slightly calcareous, soft.	
4005	4035	100	<u>Siltstone</u> , as above red, brown, lavender, occasional mica, trace anhydrite, occasional trace light gray green and lavender partings.	
4035	4040	100	<u>Siltstone</u> , as above with trace <u>Limestone</u> , reddish brown, light gray, IVFA, very silty.	
4040	4045	100	<u>Siltstone</u> , as above.	
4045	4050	60	<u>Siltstone</u> , as above.	
		40	<u>Sandstone</u> , white, very fine, sub-rounded, good sorting, good cementing, very calcareous.	

DITCH SAMPLES

Examined by McLehane 4050 to 4175Well. Dzaneez No. 1Field or Area Wildcat

From	To	%	Shows Underlined	Samples Lagged (Not)
4050	4055	20	<u>Siltstone</u> , as above, very shaly.	
		80	<u>Limestone</u> , white-gray IVFA, very sandy.	
4055	4060	80	<u>Siltstone</u> , as above, light gray, very calcareous.	
		20	<u>Limestone</u> , as above.	
4060	4065	20	<u>Limestone</u> , as above.	
		50	<u>Siltstone</u> , light gray as above.	
		30	<u>Siltstone</u> , red brown, firm, occasionally shaly, very calcareous.	
4065	4070	10	<u>Limestone</u> , as above.	
		50	<u>Siltstone</u> , light gray, as above.	
		35	<u>Siltstone</u> , red brown, as above.	
		5	<u>Chert</u> , red, brown, pink.	
4070	4075	30	<u>Siltstone</u> , gray green as above, very calcareous.	
		40	<u>Siltstone</u> , red, brown, lavender, as above, firm, very calcareous.	
		30	<u>Sandstone</u> , white, very fine-fine, sub-rounded, good sorting, fine-good cementing, very calcareous.	
		Tr.	<u>Chert</u> , as above, pink.	
4075	4085		No Sample	
4085	4090	100	<u>Siltstone</u> , red brown, pink, lavender, as above.	
		Tr.	<u>Sandstone</u> , as above.	
4090	4130	100	<u>Siltstone</u> , as above, red, brown, pink, light brown.	
4130	4135	80	<u>Siltstone</u> , as above.	
		20	<u>Limestone</u> , gray IVFA, fossiliferous, sandy.	
4135	4140	70	<u>Siltstone</u> , as above, occasionally shaly, occasional mica.	
		30	<u>Limestone</u> , as above, white-gray IVFA, very sandy.	
4140	4145	50	<u>Siltstone</u> , as above, very shaly.	
		50	<u>Limestone</u> , as above, cherty, sandy.	
4145	4150	100	<u>Limestone</u> , as above, brown-gray IVFA, occasionally fossiliferous, sandy, with chert fragments and nodules.	
		Tr.	<u>Siltstone</u> , as above.	
4150	4155	90	<u>Limestone</u> , as above.	
		10	<u>Siltstone</u> , gray-dark gray, firm, calcareous.	
4155	4160	50	<u>Limestone</u> , as above.	
		50	<u>Siltstone</u> , as above, dark gray, red brown.	
4160	4175	100	<u>Siltstone</u> , as above.	

DITCH SAMPLES

Examined by McLehaney 4175 to 4295
 _____ to _____

Well. Dzaneez No. 1
 Field or Area Wildcat

From	To	%	Shows Underlined	Samples Lagged (Not)
4175	4180	70	<u>Siltstone</u> , as above.	
		30	<u>Limestone</u> , brown, gray, IVFA, occasionally fossiliferous, sandy, with chert fragments.	
4180	4185	10	<u>Siltstone</u> , as above.	
		90	<u>Limestone</u> , as above, white-light gray IVFA, with abundant chert fragments and nodules, occasionally silty.	
4185	4195	100	<u>Limestone</u> , as above, fossiliferous, sandy, chert as above.	
4195	4200	90	<u>Limestone</u> , as above.	
		10	<u>Siltstone</u> , red brown, gray, lavender, firm, calcareous, occasional mica.	
4200	4205	20	<u>Limestone</u> , as above.	
		80	<u>Siltstone</u> , as above.	
4205	4210	50	<u>Siltstone</u> , as above.	
		50	<u>Limestone</u> , as above, gray-brown IVFA, very silty.	
4210	4215	70	<u>Siltstone</u> , as above, red brown, gray, lavender.	
		30	<u>Limestone</u> , as above.	
4215	4220	80	<u>Siltstone</u> , as above.	
		20	<u>Limestone</u> , as above.	
4220	4230	100	<u>Siltstone</u> , as above, red brown, gray, lavender, firm, calcareous, with occasional mica.	
4230	4235	90	<u>Siltstone</u> , as above.	
		10	<u>Limestone</u> , white-light gray IVFA, trace fossils, sandy, with chert fragments.	
4235	4240	40	<u>Siltstone</u> , as above.	
		60	<u>Limestone</u> , as above, gray-brown with abundant chert fragments and nodules.	
4240	4260	100	<u>Limestone</u> , as above IVF-MA, fossiliferous, with chert fragments, nodules and replacements.	
4260	4265	100	<u>Limestone</u> , as above, with increasing sand.	
4265	4275	100	<u>Siltstone</u> , red brown, firm, very calcareous with occasional mica.	
4275	4280	60	<u>Siltstone</u> , as above.	
		40	<u>Limestone</u> , white-light gray, IVFA, occasionally fossiliferous, trace sand, trace chert fragments.	
4280	4295	100	<u>Limestone</u> , as above.	

DITCH SAMPLES

Examined by McLehane 4295 to 4385Well. Dzaneez No. 1Field or Area Wildcat

From	To	%	Shows Underlined	Samples Lagged (Not)
4295	4300	70	<u>Limestone</u> , as above with abundant chert, as above.	
		30	<u>Siltstone</u> , red brown, firm, calcareous.	
4300	4305	70	<u>Limestone</u> , as above, light-dark gray, fossiliferous, sandy, with chert, as above.	
		30	<u>Siltstone</u> , as above.	
4305	4325	100	<u>Limestone</u> , as above, occasionally very sandy, fossiliferous, with abundant chert, as above.	
4325	4330	40	<u>Limestone</u> , as above.	
		60	<u>Limestone</u> , dark gray-black, IVFA, very silty, occasionally fossiliferous, slightly shaly.	
4330	4335	50	<u>Limestone</u> , light gray, as above.	
		10	<u>Limestone</u> , dark gray-black as above.	
		40	<u>Siltstone</u> , gray, very calcareous, very sandy.	
4335	4340	10	<u>Limestone</u> , light gray, as above.	
		90	<u>Siltstone</u> , white-light gray, grading to very fine sandstone, firm, very calcareous.	
4340	4345	100	<u>Siltstone</u> , as above.	
4345	4350	100	<u>Siltstone</u> , as above, gray, lavender.	
4350	4355	50	<u>Siltstone</u> , as above.	
		50	<u>Limestone</u> , gray, IVFA, silty, with abundant chert fragments.	
4355	4365	20	<u>Siltstone</u> , as above, gray, white, black, very sandy.	
		80	<u>Limestone</u> , as above, gray-white, fossiliferous with abundant chert fragments and nodules.	
4365	4370	30	<u>Siltstone</u> , as above, white, dark gray-black, very sandy.	
		70	<u>Limestone</u> , as above.	
4370	4375	50	<u>Siltstone</u> , as above.	
		50	<u>Limestone</u> , as above.	
4375	4380	40	<u>Siltstone</u> , as above, white, gray.	
		60	<u>Limestone</u> , as above, with occasional chert fragments.	
4380	4385	60	<u>Siltstone</u> , as above, red brown, lavender, gray with occasional white very fine-fine sandstone stringers.	
		40	<u>Limestone</u> , as above with chert fragments.	

DITCH SAMPLES

Examined by McLehane 4385 to 4475Well Dzaneez No. 1Field or Area Wildcat

From	To	%	Shows Underlined	Samples Lagged (Not)
4385	4395	90	<u>Siltstone</u> , as above, red brown, lavender, gray, very calcareous, very sandy.	
		10	<u>Limestone</u> , as above, gray-white IVFA, with chert fragments, occasionally fossiliferous.	
4395	4400	50	<u>Siltstone</u> , as above.	
		50	<u>Limestone</u> , as above, white-gray IVF-MA, very fossiliferous.	
4400	4405	40	<u>Siltstone</u> , as above, red brown, gray.	
		30	<u>Limestone</u> , as above, IVFA, very fossiliferous.	
		30	<u>Volcanics</u> , green, medium-large crystalline, very micaceous, with occasional large-coarse crystalline quartz.	
4405	4415	60	<u>Siltstone</u> , as above, red brown, green.	
		40	<u>Limestone</u> , as above, very fossiliferous with chert fragments.	
		Tr.	<u>Volcanics</u> , as above.	
4415	4420	60	<u>Siltstone</u> , as above, red brown, lavender, pink.	
		40	<u>Limestone</u> , as above, gray, occasionally white with abundant chert fragments.	
4420	4425	80	<u>Siltstone</u> , as above, red brown, gray, lavender.	
		20	<u>Limestone</u> , as above, gray, fossiliferous, with occasional chert fragments.	
4425	4430	90	<u>Siltstone</u> , as above, red brown, micaceous.	
		10	<u>Volcanics</u> , green, coarse, crystalline, very micaceous.	
4430	4440	100	<u>Siltstone</u> , as above, with trace volcanics, as above.	
4440	4445	90	<u>Siltstone</u> , as above.	
		10	<u>Limestone</u> , gray, IVF-FA, very sandy and silty.	
4445	4450	70	<u>Siltstone</u> , as above.	
		30	<u>Limestone</u> , as above with trace chert fragments.	
4450	4455	70	<u>Siltstone</u> , as above, red brown, pink, very sandy, very calcareous.	
		30	<u>Limestone</u> , as above.	
4455	4460	90	<u>Siltstone</u> , as above, red brown, gray.	
		10	<u>Limestone</u> , gray-white IVFA, fossiliferous, occasionally sandy and silty.	
4460	4465	100	<u>Limestone</u> , as above with occasional fine-medium sand grains.	
4465	4470	90	<u>Limestone</u> , as above.	
		10	<u>Siltstone</u> , gray, firm, very calcareous.	
4470	4475	50	<u>Limestone</u> , as above, very fossiliferous.	
		50	<u>Siltstone</u> , as above, gray-black.	

DITCH SAMPLES

Examined by McLehanev 4475 to 4630Well. Dzaneez No. 1Field or Area Wildcat

From	To	%	Shows Underlined	Samples Lagged (Not)
4475	4480	80	<u>Limestone</u> , as above, gray.	
		20	<u>Siltstone</u> , as above.	
4480	4485	50	<u>Limestone</u> , as above.	
		50	<u>Siltstone</u> , as above, red brown, tan, lavender, occasional gray-black, firm, calcareous.	
4485	4495	40	<u>Limestone</u> , as above.	
		60	<u>Siltstone</u> , as above.	
4495	4500	70	<u>Limestone</u> , as above.	
		30	<u>Siltstone</u> , as above.	
4500	4515	100	<u>Limestone</u> , as above, gray-white IVFA, with occasional very fine, white sandstone partings.	
4515	4520	90	<u>Limestone</u> , as above with abundant chert fragments.	
		10	<u>Siltstone</u> , light-dark gray, very calcareous.	
4520	4525	60	<u>Limestone</u> , as above.	
		40	<u>Siltstone</u> , as above.	
4525	4530	40	<u>Limestone</u> , as above.	
		60	<u>Siltstone</u> , as above.	
4530	4535	70	<u>Limestone</u> , as above.	
		30	<u>Siltstone</u> , as above, light-dark gray.	
4535	4540	80	<u>Limestone</u> , as above, fossiliferous.	
		20	<u>Siltstone</u> , as above, very sandy.	
4540	4555	90	<u>Limestone</u> , as above, occasionally fossiliferous, very clayey, with abundant chert fragments.	
		10	<u>Siltstone</u> , as above.	
4555	4570	30	<u>Limestone</u> , as above, very clayey, with abundant chert fragments.	
		70	<u>Siltstone</u> , as above, dark gray.	
4570	4575	20	<u>Limestone</u> , as above, very sandy, with abundant chert fragments.	
		80	<u>Siltstone</u> , as above, white-dark gray, very sandy, very calcareous.	
4575	4580	90	<u>Limestone</u> , as above, gray, IVFA, fossiliferous, sandy.	
		10	<u>Siltstone</u> , as above, gray.	
4580	4620	100	<u>Limestone</u> , as above gray-dark gray, occasionally fossiliferous, with abundant chert fragments.	
4620	4625	100	<u>Limestone</u> , as above, white-gray with occasional chert fragments.	
4625	4630	100	<u>Limestone</u> , as above, I-II VFA with occasional chert fragments.	

DITCH SAMPLES

Examined by McLehaney 4630 to 4765
 _____ to _____

Well Dzaneez No. 1
 Field or Area Wildcat

From	To	%	Shows Underlined	Samples Lagged (Not)
4630	4635	100	<u>Limestone</u> , as above, white-gray I-II VFA.	
4635	4645	100	<u>Limestone</u> , as above, occasionally fossiliferous with chert fragments, with trace black siltstone.	
4645	4650	100	<u>Limestone</u> , as above, with occasional chert fragments.	
4650	4670	100	<u>Limestone</u> , as above, II-IVFA, with <u>limestone</u> , light gray-gray, IVFA, occasionally fossiliferous, occasional chert fragments.	
4670	4675	100	<u>Limestone</u> , as above, white, with <u>limestone</u> , as above, gray, with occasional chert.	
4675	4680	90	<u>Limestone</u> , as above.	
		10	<u>Dolomite</u> , dark brown, IVFA, firm.	
4680	4685	50	<u>Limestone</u> , as above.	
		50	<u>Dolomite</u> , as above, dark brown-dark gray, with trace dark gray shaly siltstone with abundant dark brown chert fragments.	
4685	4690	30	<u>Limestone</u> , as above.	
		70	<u>Dolomite</u> , as above, with abundant dark brown-black chert fragments.	
4690	4695	30	<u>Limestone</u> , as above, white-gray, II-IVFA.	
		40	<u>Dolomite</u> , as above, dark brown-dark gray, IVFA, very cherty.	
		30	<u>Siltstone</u> , dark gray, very calcareous, very shaly.	
4695	4700	10	<u>Limestone</u> , as above, with trace dolomite as above.	
		20	<u>Siltstone</u> , dark gray as above, shaly.	
		70	<u>Siltstone</u> , light - dark gray, calcareous.	
4700	4710	100	<u>Limestone</u> , as above, white - light gray, I-IIVFA, fossiliferous, with trace light gray - gray siltstone as above.	
4710	4715	100	<u>Limestone</u> , as above, I, trace II VFA, trace B, very fossiliferous, trace vugs, with <u>approximately 5% black stain, 10% yellow fluorescence, slow milky cut fluorescence.</u>	
4715	4730	100	<u>Limestone</u> , as above, gray, I, trace II VFA.	
4730	4740	90	<u>Limestone</u> , as above.	
		10	<u>Siltstone</u> , gray, soft, very calcareous.	
4740	4745	20	<u>Limestone</u> , as above, IVFA, fossiliferous, with occasional chert fragments.	
		80	<u>Siltstone</u> , as above, light - dark gray, very calcareous.	
4745	4765	100	<u>Limestone</u> , as above, white - gray, brown, I-II VFA, fossiliferous, with trace chert fragments.	

DITCH SAMPLES

Examined by McLehane 4765 to 4880Well Dzaneez No. 1Field or Area Wildcat

From	To	%	Shows Underlined	Samples Lagged (Not)
4765	4775	90	<u>Limestone</u> , as above.	
		10	<u>Siltstone</u> , gray - brown, soft, very calcareous.	
4775	4790	100	<u>Limestone</u> , as above, dark brown, IVFA, fossiliferous, with chert fragments and occasional light - dark gray limestone, I-II VFA, occasional fossils and trace gray siltstone.	
4790	4805	100	<u>Limestone</u> , as above, gray - dark brown, I, trace II, VFA, very silty, with trace chert.	
4805	4825	100	<u>Limestone</u> , as above, IVFA, very silty, with abundant dark brown - black chert fragments.	
4825	4830	100	<u>Limestone</u> , as above, I, trace II, VFA, occasional fossils, silty, with abundant chert as above.	
4830	4840	70	<u>Limestone</u> , as above with abundant chert, as above.	
		30	<u>Limestone</u> , blue gray, IVFA, very dolomitic, silty, firm.	
4840	4845	50	<u>Limestone</u> , gray - dark brown as above, with occasional chert as above.	
		50	<u>Limestone</u> , as above, gray, IVFA, <u>no staining, 10% yellow fluorescence, very slight milky cut fluorescence.</u>	
4845	4850	100	<u>Limestone</u> , as above, gray - light tan, IVFA, trace B, very dolomitic, <u>no stain, 50% yellow fluorescence, very slight milky cut fluorescence.</u>	
4850	4855	100	<u>Limestone</u> , as above, gray - tan, IVFA, dolomitic, <u>no stain, 20% yellow fluorescence, very slight milky cut fluorescence.</u>	
4855	4860	100	<u>Limestone</u> , as above.	
4860	4865	100	<u>Limestone</u> , as above, <u>no staining, 20% yellow fluorescence, very slight - slight milky cut fluorescence.</u>	
4865	4870	70	<u>Limestone</u> , as above.	
		30	<u>Dolomite</u> , brown, IVFA, trace B, <u>no staining, 20% yellow fluorescence, slight milky cut fluorescence.</u>	
4870	4875	40	<u>Limestone</u> , as above.	
		60	<u>Dolomite</u> , as above, IVFA-B, fossiliferous, <u>no staining, 10% yellow fluorescence, faint milky cut fluorescence.</u>	
4875	4880	100	<u>Dolomite</u> , as above, slightly limy, <u>no staining, 10% yellow fluorescence, slight cut fluorescence, milky cut fluorescence.</u>	

DITCH SAMPLES

Examined by McLehanev 4880 to 4945Well Dzaneez No. 1Field or Area Wildcat

From	To	%	Shows Underlined	Samples Lagged (Not)
4880	4885	100	<u>Dolomite</u> , as above, <u>no staining</u> , <u>10% yellow fluorescence</u> , <u>very slight milky cut fluorescence</u> .	
4885	4890	100	<u>Dolomite</u> , as above, <u>no staining</u> , <u>5% yellow fluorescence</u> , <u>very slight milky cut fluorescence</u> .	
4890	4895	100	<u>Dolomite</u> , as above, brown, IVFA, trace B, fossiliferous, limy, <u>no staining</u> , <u>5% light yellow fluorescence</u> , <u>trace milky cut fluorescence</u> .	
4895	4900	70	<u>Dolomite</u> , as above, brown - dark gray, IVFA.	
		30	<u>Siltstone</u> , gray, very shaly, soft - firm.	
4900	4905	100	<u>Dolomite</u> , dark gray - black, IVFA, silty, firm.	
4905	4910	70	<u>Dolomite</u> , as above.	
		30	<u>Dolomite</u> , tan, IVFA, very fossiliferous (oolitic), calcareous, with anhydrite stringers.	
4910	4912	30	<u>Dolomite</u> , dark gray - black, as above.	
		70	<u>Dolomite</u> , tan, as above.	

CIRCULATION SAMPLES

4912	30	(15 min.)	<u>Dolomite</u> , dark gray - black, as above.	
	70		<u>Dolomite</u> , tan, as above, with anhydrite as above.	
	100	(30 min.)	<u>Dolomite</u> , tan, as above, with anhydrite as above.	
	70	(45 min.)	<u>Dolomite</u> , tan, as above, with anhydrite as above.	
	30		<u>Dolomite</u> , dark gray, IVFA, silty.	

Depth corrected from 4916 to 4929

4925	4930	60	<u>Dolomite</u> , tan, as above, with anhydrite as above.	
		40	<u>Dolomite</u> , dark gray - black, as above.	
4930	4935	80	<u>Dolomite</u> , tan, as above, with anhydrite as above.	
		20	<u>Dolomite</u> , dark gray - black, as above.	
4935	4940	100	<u>Dolomite</u> , tan, as above, IVFA, trace III VFA, occasionally fossiliferous (oolites), with anhydrite as above.	
4940	4945	80	<u>Dolomite</u> , as above, with anhydrite as above.	
		20	<u>Dolomite</u> , dark brown - dark gray, IVFA, silty, with occasional dark brown - black chert fragments.	

DITCH SAMPLES

Examined by McLehane 4945 to 5030Well. Dzaneez No. 1Field or Area Wildcat

From	To	%	Shows Underlined	Samples Lagged (Not)
4945	4950	50	<u>Dolomite</u> , tan, as above.	
		50	<u>Dolomite</u> , dark brown - dark gray as above, with chert as above.	
4950	4955	30	<u>Dolomite</u> , tan as above, IVFA, fossiliferous (oolitic), with occasional anhydrite stringers.	
		70	<u>Dolomite</u> , dark brown - dark gray, as above, with trace chert as above.	
4955	4960	70	<u>Dolomite</u> , tan as above, with occasional anhydrite as above.	
		30	<u>Dolomite</u> , dark brown - dark gray as above, with trace chert as above.	
4960	4965	40	<u>Dolomite</u> , tan as above, with anhydrite as above.	
		60	<u>Dolomite</u> , gray - black as above, with chert as above.	
4965	4970	30	<u>Dolomite</u> , tan, as above, IVFA, fossiliferous (oolitic), with anhydrite stringers.	
		60	<u>Dolomite</u> , dark gray - black, IVFA, with occasional chert fragments.	
		10	<u>Siltstone</u> , gray, dolomitic.	
4970	4980	50	<u>Dolomite</u> , tan - brown as above, with anhydrite as above.	
		50	<u>Dolomite</u> , dark gray as above, with trace chert as above.	
4980	4990	100	<u>Dolomite</u> , tan - brown as above, IVFA.	
4990	4995	30	<u>Dolomite</u> , tan - brown as above.	
		60	<u>Dolomite</u> , black, dark gray, IVFA.	
		10	<u>Siltstone</u> , gray, dolomitic.	
4995	5000	20	<u>Dolomite</u> , tan - brown as above.	
		50	<u>Dolomite</u> , black, dark gray, dark brown as above, occasionally shaly.	
		10	<u>Siltstone</u> , as above.	
		20	<u>Limestone</u> , gray, IVFA.	
5000	5005	40	<u>Dolomite</u> , dark gray, dark brown, black as above.	
		60	<u>Limestone</u> , as above, gray, white, I, occasionally II, VFA.	
5005	5015	100	<u>Limestone</u> , as above, I-II VFA.	
5015	5020	20	<u>Limestone</u> , as above, gray, IVFA.	
		80	<u>Siltstone</u> , light gray - gray, dolomitic, firm - soft.	
5020	5025	100	<u>Siltstone</u> , light - dark gray, with trace limestone as above.	
5025	5030	90	<u>Siltstone</u> , as above, very shaly.	
		10	<u>Limestone</u> , gray - tan, IVFA.	

DITCH SAMPLES

Examined by McLehaney 5030 to 5090Well Dzaneez No. 1Field or Area Wildcat

From	To	%	Shows Underlined	Samples Lagged
5030	5035	80	<u>Siltstone</u> , as above, grading to shale, gray - dark gray, micaceous, calcareous.	
		10	<u>Limestone</u> , as above.	
		10	<u>Sandstone</u> , clear - gray, medium - coarse, angular - subangular, poor sorting, fair - good cementing, calcareous.	
5035	5040	50	<u>Siltstone</u> , as above, pyritic.	
		50	<u>Limestone</u> , as above, gray - white, I, occasionally II VFA.	
		Tr	<u>Sandstone</u> , as above.	
5040	5045	30	<u>Siltstone</u> , as above.	
		60	<u>Limestone</u> , as above.	
		10	<u>Sandstone</u> , as above, with coarse angular quartz crystals.	
5045	5050	100	<u>Limestone</u> , as above, with occasional anhydrite, trace siltstone and sandstone as above.	
5050	5055	70	<u>Limestone</u> , as above, occasionally fossiliferous, with anhydrite stringers.	
		30	<u>Siltstone</u> , light - dark gray, firm, dolomitic, sandy, with sandstone stringers.	
5055	5060	40	<u>Limestone</u> , as above.	
		50	<u>Siltstone</u> , as above, grading to fine sandstone, gray - green gray.	
		10	<u>Sandstone</u> , white - gray, medium - coarse, angular - subangular, poor sorting, good cementing, calcareous with abundant milky quartz crystals.	
5060	5065	40	<u>Limestone</u> , as above, white - brown.	
		40	<u>Siltstone</u> , as above, gray - green gray.	
		20	<u>Sandstone</u> , white - green, very fine, good sorting, poor cementing, calcareous, with trace coarse sandstone as above and occasional coarse quartz crystals as above.	
5065	5070	50	<u>Limestone</u> , as above, brown - gray, IVFA.	
		20	<u>Siltstone</u> , as above, with trace coarse sandstone.	
		30	<u>Shale</u> , gray - black, soft, slightly dolomitic.	
5070	5075	20	<u>Limestone</u> , as above brown IVFA with trace <u>siltstone</u> .	
		30	<u>Shale</u> , black, soft-firm, dolomitic.	
		50	<u>Dolomite</u> , dark brown-black, IVFA, firm.	
5075	5080	30	<u>Shale</u> , gray-black, as above.	
		50	<u>Dolomite</u> , as above, dark brown.	
		20	<u>Dolomite</u> , light brown I-IIIIVFA, slightly calcareous.	
5080	5085	100	<u>Limestone</u> , light-dark brown IVFA, occasionally fossiliferous, slightly dolomitic.	
5085	5090	20	<u>Shale</u> , gray-green, soft, dolomitic.	
		80	<u>Limestone</u> , as above.	

DITCH SAMPLES

Examined by McLehane 5070 to 5325Well Dzaneez #1Field or Area Wildcat

From	To	%	Shows Underlined	Samples Lagged /not/
5090	5095	10	<u>Shale</u> , as above.	
		90	<u>Limestone</u> , as above, white-light tan, I-IIVFA, fossiliferous.	
5095	5100	100	<u>Limestone</u> , as above.	
5100	5115	100	<u>Limestone</u> , as above, light tan-gray.	
5115	5125	50	<u>Limestone</u> , as above, IVFA.	
		50	<u>Dolomite</u> , light brown, IVFA.	
5125	5130	100	<u>Dolomite</u> , as above, light-dark brown with trace <u>limestone</u> .	
5130	5135	50	<u>Limestone</u> , tan-dark brown, IVFA.	
		50	<u>Siltstone</u> , green-gray, soft, calcareous.	
5135	5140	70	<u>Limestone</u> , as above.	
		30	<u>Siltstone</u> , as above, shaly.	
5140	5155	100	<u>Limestone</u> , as above, white-tan, I-IIVFA, occasionally oolitic.	
5155	5160	70	<u>Limestone</u> , as above.	
		30	<u>Dolomite</u> , light tan, with trace IIIVFA.	
5160	5165	10	<u>Limestone</u> , as above, light gray, IV FA, trace oolites.	
		90	<u>Dolomite</u> , as above I-IIIVFA.	
5165	5170	100	<u>Dolomite</u> , as above, light tan-gray, with occasional IIIVFA.	
5170	5175	50	<u>Dolomite</u> , as above.	
		50	<u>Limestone</u> , gray-dark gray, IVFA, fossiliferous.	
5175	5205	100	<u>Limestone</u> , as above, tan-dark brown, trace fossils.	
5205	5210	100	<u>Limestone</u> , as above, dolomitic, fossiliferous, with abundant dark brown chert fragments.	
5210	5260	100	<u>Limestone</u> , as above, brown-dark brown, occasionally black, dolomitic with chert fragments.	
5260	5270	100	<u>Limestone</u> , as above, light tan-dark brown, occasionally white, with occasional trace chert fragments.	
5270	5285	100	<u>Limestone</u> , as above, white, light tan-gray, dark brown, IVFA, occasionally I-IIVFA.	
5285	5290	70	<u>Limestone</u> , as above.	
		30	<u>Sandstone</u> , silty, gray, very fine, good sorting, firm, calcareous.	
5290	5300	100	<u>Limestone</u> , as above, tan, occasionally white, IVFA, trace I-IIIVFA, with trace <u>sandstone</u> , as above.	
5300	5305	100	<u>Limestone</u> , as above, white-tan, occasionally gray-I-IIIVFA, occasionally fossiliferous.	
5305	5315	100	<u>Limestone</u> , as above, white, gray, dark brown, IVFA, trace I-IIIVFA, occasionally fossiliferous.	
5315	5325	100	<u>Limestone</u> , as above white-tan, light gray IVFA, occasionally fossiliferous.	

DITCH SAMPLES

Examined by McLehaney 5325 to 5435
_____ to _____Well Dzaneez No. 1
Field or Area Wildcat

From	To	%	Shows Underlined	Samples Lagged (NOT)
5325	5340	100	<u>Limestone</u> , as above, white-light tan, IVFA, occasionally fossiliferous	
5340	5355	100	<u>Limestone</u> , as above, tan, gray, dark brown, occasionally fossiliferous.	
5355	5380	100	<u>Limestone</u> , as above, white-tan, gray, IVFA, trace I-IIVFA, occasionally fossiliferous.	
5380	5385	50	<u>Limestone</u> , as above, white	
		30	<u>Shale</u> , green, calcareous	
		20	<u>Siltstone</u> , brown, calcareous	
5385	5390	20	<u>Limestone</u> , as above, light-dark brown, IVFA, fossiliferous	
		50	<u>Shale</u> , as above, green, maroon, red, gray	
		30	<u>Sandstone</u> , white, green, gray, very fine-medium, calcareous, poor sorting, silty.	
5390	5395	20	<u>Limestone</u> , as above, dark brown	
		80	<u>Shale</u> , as above, gray, green, brown, maroon, black, silty	
5395	5400	---	No Sample.	
5400	5405	60	<u>Limestone</u> , as above, tan-brown, IVFA, fossiliferous, with occasional <u>shale</u> inclusions	
		40	<u>Siltstone</u> , light gray, calcareous, micaceous, grading to <u>shale</u>	
5405	5410	30	<u>Limestone</u> , as above, white, I-IIIIVF-FA, fossiliferous, dolomitic	
		70	<u>Siltstone</u> , as above, maroon, red, brown, gray, green, calcareous, micaceous	
5410	5415	100	<u>Limestone</u> , as above	
5415	5420	70	<u>Limestone</u> , as above, white, fossiliferous, dolomitic	
		30	<u>Dolomite</u> , brown, IVFA, calcareous	
5420	5425	100	<u>Limestone</u> , as above, white, brown, IVFA, fossiliferous, very dolomitic	
5425	5430	40	<u>Limestone</u> , as above, white, brown	
		10	<u>Siltstone</u> , white-green, calcareous	
		50	<u>Shale</u> , light-dark gray, calcareous, soft, silty	
5430	5435	20	<u>Limestone</u> , as above, brown, IVFA, fossiliferous	
		30	<u>Siltstone</u> , green-gray	
		50	<u>Shale</u> , light gray	

DITCH SAMPLES

Examined by McLehaney 5435 to 5515
 _____ to _____

Well. Dzaneez No. 1
 Field or Area Wildcat

From	To	%	Shows Underlined	Samples Lagged (NOT)
5435	5440	70 30	<u>Limestone</u> , as above, white, brown, I-IIIIVF-FA, dolomitic, fossiliferous <u>Siltstone</u> , as above	
5440	5445	100	<u>Limestone</u> , as above, white-light brown, IVFA, very dolomitic, fossiliferous	
5445	5450	70 30	<u>Limestone</u> , as above <u>Shale</u> , light gray, calcareous, silty	
5450	5455	30 70	<u>Limestone</u> , as above <u>Shale</u> , as above, light gray, maroon, very silty, with brown mottling	
5455	5460	30 70	<u>Limestone</u> , as above, white <u>Siltstone</u> , light gray, calcareous, with brown mottling	
5460	5465	70 30	<u>Limestone</u> , as above, light brown, very fossiliferous <u>Siltstone</u> , as above	
5465	5470	70 30	<u>Limestone</u> , as above, dark gray <u>Siltstone</u> , as above, gray, red, sandy	
5470	5475	100	<u>Limestone</u> , as above	
5475	5480	50 30 20	<u>Limestone</u> , as above, dark gray, IVFA, fossiliferous, dolomitic <u>Shale</u> , green-gray, with brown mottling <u>Sandstone</u> , red, medium-coarse, subangular, poor sorting, hard	
5480	5485	10 50 40	<u>Limestone</u> , light brown, IVFA, with shale partings <u>Shale</u> , as above <u>Sandstone</u> , as above	
5485	5490	80 20	<u>Shale</u> , as above <u>Sandstone</u> , as above	
5490	5500	70 30	<u>Shale</u> , as above <u>Limestone</u> , white, IVFA, very fossiliferous	
5500	5505	100	<u>Limestone</u> , as above	
5505	5510	50 50	<u>Limestone</u> , as above <u>Shale</u> , light gray-green, soft	
5510	5515	100	<u>Shale</u> , as above	

K

DITCH SAMPLES

Examined by McLehane 5515 to 5558
_____ to _____Well Dzaneez No. 1
Field or Area Wildcat

From	To	%	Shows Underlined	Samples Lagged (NOT)
5515	5520	70	<u>Shale</u> , as above, gray, green, lavender, with brown mottling	
		30	<u>Limestone</u> , white, IVFA, dolomitic	
5520	5525	50	<u>Shale</u> , as above	
		30	<u>Limestone</u> , as above	
		20	<u>Siltstone</u> , white-green, calcareous	
5525	5535	100	<u>Shale</u> , as above	
5535	5540	90	<u>Shale</u> , as above	
		10	<u>Limestone</u> , light brown, IVFA, dolomitic	
5540	5550	80	<u>Shale</u> , as above	
		20	<u>Limestone</u> , as above, with occasional chert nodules and fragments	
5550	5555	60	<u>Shale</u> , as above	
		40	<u>Limestone</u> , as above, with abundant chert as above	
5555	5558	80	<u>Shale</u> , as above, gray and maroon	
		20	<u>Limestone</u> , as above, white, IVFA, dolomitic	

T. D. at 5558'

G.E.D.

R

(SUBMIT IN TRIPLICATE)

Indian Agency **Navajo**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee **Tribal Lands**

Lease No. **14-20-603-4351**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	X
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

December 13, 19 1960

Well No. **1** is located **758.8** ft. from **NS** line and **4627.8** ft. from **E** line of sec. **34**

SW SW 34 **42 S** **20 E** **S1EM**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

Wilcox **San Juan** **Utah**
(Field) (County or Subdivision) (State or Territory)

Kelly Bushing

The elevation of the ~~surface~~ above sea level is **4932** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded 6:00 A.M. 11-25-60

11-27-60 Ran and cemented 8-5/8", 28#, H-40 casing at 568' with 200 sacks 1-1
to Diamix and 200 sacks cement treated with 3% calcium chloride. Cement
11-28-60 returns to surface. Flanged up and waited on cement. Pressure tested
casing and blow out equipment with 750 psi for 15 mins., OK.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Shell Oil Company**

Address **P. O. Box 1200**
Farmington, New Mexico

Original Signed By
W. M. MARSHALL

By **W. M. Marshall**
Title **Division Exploitation Engineer**

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal Lands

Lease No. 14-20-603-4351

	34	
I		

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	I
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 12, 1961

Well No. 1 is located 758.8 ft. from S line and 4627.8 ft. from E line of sec. 34

SW 1/4 34 (1/4 Sec. and Sec. No.) 42S (Twp.) 20E (Range) SLM (Meridian)
Wilcox (Field) San Juan (County or Subdivision) Utah (State or Territory)

The elevation of the Kelly Bushing ~~surface~~ above sea level is 4922 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

1-6-61 DST #1, 4832-4896 (Desert Creek zone), ISI 1 hour, open 2 hours, FSI 2 hours, immediate strong blow decreasing to weak after 30 minutes, faint remainder of test. Recovered 3800' (50.7 bbls.) slightly oil and gas out sulphur water. Maximum salinity 28,000 ppm NaCl (backcuttled). ISIP 1695, FP 1445/1695, FSIP 1695, NP 2322.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address Post Office Box 1200
Farmington, New Mexico

Original Signed By
W. M. MARSHALL
By W. M. Marshall
Title Division Exploitation Engineer

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal Lands

Lease No. 14-20-603-4351

		34	
X			

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 20, 1961

Dzaneez

Well No. 1 is located 758.8 ft. from S line and 4627.8 ft. from E line of sec. 34

SW SW 34

(1/4 Sec. and Sec. No.)

42 S

(Twp.)

20 E

(Range)

SLEM

(Meridian)

Wildcat

(Field)

San Juan

(County or Subdivision)

Utah

(State or Territory)

The elevation of the Kelly ~~drill floor~~ above sea level is 4932 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

1-18-61 DST #2 4832-4855 (Akah Zone) ISI 60 min., open 2 hrs., FSI 2 hrs.
Faint blow for 15 min - dead. Recovered 470' (3.95 B) sulphurous water. ISIP 1664, IFP/FFP 65/207, FSIP 1600, HP 2275

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address P. O. Box 1200

Farmington, New Mexico

Original Signed By
W. M. MARSHALL

By

W. M. Marshall

Title Division Exploitation Engineer

(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

		34	
X			

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Tribal Lands

Lease No. 14-20-603-4351

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	X		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 23, 1961

Distances
Well No. 1 is located 753.5 ft. from [N] line and 4627.0 ft. from [E] line of sec. 34

34 42S 20W 31N
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat San Juan Utah
(Field) (County or Subdivision) (State or Territory)

Kelly Lushing
The elevation of the ~~drill hole~~ above sea level is 4932 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Status: Total Depth 5550'
Casing - 8-5/8" at 500 w/400 sacks.
Hole Size - 7-7/8" from 500' to 5550' (T).

Proposed Work:

- Place plugs through open end drill pipe as follows:
 - 75 sacks cement 3750-3850' (across top of Permian)
 - 75 sacks cement 1675-1775' (across top of Be Shelly)
 - 150 sacks cement 515-700' (across shoe of surface casing and top of Chinle)

(over)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Shell Oil Company

Address Post Office Box 1200
Farmington, New Mexico

Original Signed By W. M. MARSHALL
By W. M. Marshall
Title Div. Exploitation Engineer

2. Feel for top of plug in surface casing, recess if not above 540'.

3. Cement at surface with a 10-sack cement plug, install marker.

Note: 1) Verbal approval to abandon was given by Rudy Haier, U. S. Geological Survey to E. A. Hauptfleisch, 1-16-61.

2) Verbal approval to abandon was given by R. I. Schmidt, Utah Oil and Gas Conservation Commission to E. A. Hauptfleisch, 1-16-61.

POST 1140

(SUBMIT IN TRIPLICATE)

Indian Agency **Navajo**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee **Tribal Lands**

Lease No. **14-20-603-4351**

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SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<input checked="" type="checkbox"/>		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

January 23, 19 **61**

Deanees
Well No. **1** is located **750.8** ft. from **[N]** line and **4627.8** ft. from **[E]** line of sec. **34**

SW 34 **42S** **20E** **34RN**
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat **San Juan** **Utah**
(Field) (County or Subdivision) (State or Territory)

Kelly Lushing
The elevation of the ~~drill hole~~ above sea level is **4932** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Status: Total Depth **5558'**
Casing - **6-5/8"** at **508 w/400 sacks.**
Hole Size - **7-7/8"** from **508'** to **5558'** (TD).

Proposed Work:

1. Place plugs through open end drill pipe as follows:

- (a) 75 sacks cement 3750-3850' (across top of Hermosa)
- (b) 75 sacks cement 1675-1775' (across top of De Chelly)
- (c) 150 sacks cement 540-760' (across shoe of surface casing and top of Chinle)

(over)

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Shell Oil Company**

Address **Post Office Box 1200**

Farmington, New Mexico

Original Signed By
W. M. MARSHALL

By **W. M. Marshall**
Title **Div. Exploitation Engineer**

2. Feel for top of plug in surface casing, recent if not above 540'.
3. Cement at surface with a 10-sack cement plug, install marker.

Note: 1) Verbal approval to abandon was given by Rudy Baier, U. S. Geological Survey to W. A. Hauptfleisch, 1-16-61.

2) Verbal approval to abandon was given by R. L. Schmidt, Utah Oil and Gas Conservation Commission to W. A. Hauptfleisch, 1-16-61.

JAN

ALLOTTEE Tribal
TRIBE Navajo
LEASE NO. 14-20-603-4351

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County San Juan Field Wildcat - Dzaneez

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 19 61.

Agent's address P. O. Box 1200 Company Shell Oil Company
Farmington, New Mexico Signed Original Signed By

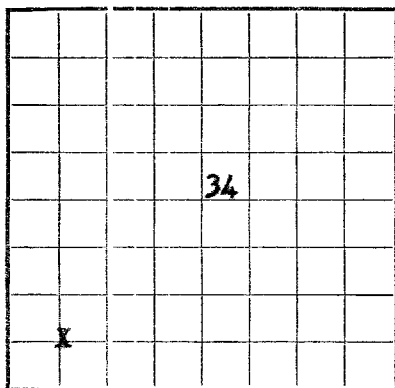
Phone DAVIS 5-8811 Agent's title Div. Exploitation Engineer

[illegible]

NOTE.—There were -----no----- runs or sales of oil; -----no----- M. cu. ft. of gas sold;

no runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

U. S. LAND OFFICE **Tribal Land**
SERIAL NUMBER **14-20-603-4351**
LEASE OR PERMIT TO PROSPECT

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address P.O. Box 1200, Farmington, New Mexico
Lessor or Tract Tribal - Dzaneez Field Wildcat State Utah
Well No. 1 Sec. 34 T. 42S R. 20E Meridian SLBM County San Juan
Location 758.8 ft. {N. } of S. Line and 4627.8 ft. {E. } of W. Line of Sec. 34 Elevation 4932 KB
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed W. M. MarshallDate February 3, 1961Title D.v. Exploitation Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling November 25, 1960 Finished drilling January 15, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

None
No. 1, from _____ to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8-5/8	15.8	8	AMCO	576	Make	See log			See log

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	588	200 Diamix + 200	Displacement	---	---

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

FOLD MARK

8-5/8	588	200 Diamix + 200	Displacement	---	---

PLUGS AND ADAPTERS

Heaving plug—Material ----- Length ----- Depth set -----

Adapters—Material ----- Size -----

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from ----- feet to 5558 feet, and from ----- feet to ----- feet

Cable tools were used from ----- feet to ----- feet, and from ----- feet to ----- feet

DATES

Abandoned as "dry hole", 19 61
January 20

Put to producing -----, 19-----

The production for the first 24 hours was ----- barrels of fluid of which ----- % was oil; ----- % emulsion; ----- % water; and ----- % sediment.

Gravity, °Bé. -----

If gas well, cu. ft. per 24 hours ----- Gallons gasoline per 1,000 cu. ft. of gas -----

Rock pressure, lbs. per sq. in. -----

EMPLOYEES

-----, Driller Moran Bros. Drilling Company, Driller

-----, Driller -----, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
1252	1290	38	Shinarump
1290	1725	435	Moenkopi
1725	2028	303	DeChelly
2028	3798	1770	Organ Rock
3798	4559	761	Hermosa
4559	4680	121	Bluff Zone
4680	4695	15	Paradox
4695	---	---	Desert Creek Zone
5520	---	---	Molas
FROM—	TO—	TOTAL FEET	FORMATION

(OVER)

FORMATION RECORD

8-42094-1

FEB 14 1961

(SUBMIT IN TRIPLICATE)

Indian Agency **Navajo**

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee **Tribal Lands**
Lease No. **14-20-603-4351**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

February 6, 19 61

Deanees

Well No. **1** is located **758.8** ft. from **XX** line and **4627.8** ft. from **XX** line of sec. **34**
SW SW **34** **42 S** **20E** **S1EM**

(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian) (Field) (County or Subdivision) (State or Territory)
Wildcat **San Juan** **Utah**
Kelly Rushing

The elevation of the derrick floor above sea level is **4932** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Abandonment Work:

- Placed plugs through open end drill pipe as follows:
 - 75 sacks cement 3593-3850 (across top of Hermosa)
 - 75 sacks cement 1518-1775 (across top of DeChelly)
 - 150 sacks cement 394-760 (across shoe of surface casing and top of Chinle)
- Located top of hard cement in casing at 394'.
- Cemented at surface with 10 sack cement plug, installed marker - abandoned 1-20-61

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Shell Oil Company**
Address **Post Office Box 1200**
Farmington, New Mexico

Original Signed By
W. M. MARSHALL

By **W. M. Marshall**
Title **Division Exploitation Engineer**

Note: Estimated clean up date 2-15-61, weather permitting